

More Info on calorimeters

*Remember in an isolated system, neither energy nor matter can move in or out

Calorimetry is used for:

- Determining specific and volumetric heat values and H values
- Studying phase changes, dissolving, and dilution & reactions (bomb cal)

Why use water???

- Readily available and very inexpensive!
- Has a high specific heat

Assumptions

1. No heat is transferred between the calorimeter and its environment/surroundings
2. Heat absorbed or released by the components of the calorimeter are negligible (too small to matter)
3. Dilute aqueous solutions are assumed to have a density and specific heat equal to pure water

4.18 J/g°C



Newest
technology

Designed in
Fredericton NB